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,	4	UNITED STATES GOVERNMENT	3 : CIA-RÓP78B05171A0004000	30055-0	
î		Memorandum	C023	9/di-8e	
	TO	: Chief, Special Contracting and Procurement Branch, MPIC	DATE;	29 March 1971	
	FROM	: DI-8			
25X1	subject	: 1540 Light Table			
		1. This Office is in receipt of equipments ordered through join model light table is MLT 1540-4	t procurement action by NP	ix subject IC. The DIA	
		2. The light table does not per written specifications. A list one. Cited specifications are a	lme of deficiencies is atta	eficient relative to whed as enclusure	
25X1	3. This memorandum is to serve as formal notification that DI-8 must regretfully reject the model 1540-4 light table as presently configured. The deficiencies are so severe as to have a detrimental effect on the accomplishment of the DI-8 mission.				
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		2 Enclosures a/s			
			DI-8 Image Interpretation	n ,	
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Deficiencies noted on Model MLT 1540-4 Serial Number	25X1 25X1
1. Section 3.5.1* of the Model 15h0 Written Specifications identifies the various optical systems the table is to accommodate. Included is the Dual Power Measuring Macroscope, the primary mensuration device of the DI-8 interpreter. It is extremely difficult to use this instrument on the MLT 15h0-4 light table and any measurements so derived are subject to gross error. The following deficiencies cause this lack of mensuration confidence:	
a. The carriage does not have a positive "X-Y" lock. (Note: DIA paid an additional premium to have provide a positive locking system, similar to that found on the Model MIM-4 light table). When "locked" the carriage moves 3/64 of an inch in "Y" and 5/64 of an inch in "X" with less than two pounds pressure exerted. In comparison, the locking system allows movements of only 1/128 on an inch in "X & Y" at four pounds pressure. It should be noted that this same carriage movement is evidenced on the Model MLT 1540-2 light tables already delivered. However, the manufacturer was able to meet the requirements as outlined in specification section 3.5.1.5 by placing two manual friction locking screws on the carriage. These friction locks are not applicable to the model MLT 1540-4 table due to the requirement that the carriage be electrically movable (ven when the locking system is engaged. For additional operating instructions see section 2.3.5 of the instruction munual, Quotation Revision A-1611 enclosure 1, and section 3L of MLT 1540 Program Requirements.*	25X1 25X1
b. When disengaging the carriage look release button the carriage will move 1/6; of an inch before relocking. This occurs sporadically and at various points in the total "X-Y" travel range.	:
c. Engaging the "X-Y" lock release witch often causes the carriage to move as much as 2/64 of an inch.	
d. When using the macroscope it is often necessary to approach the target most deliberately. On the	25X1 25X1
* Copies of all referenced documentation are attached as enclosure two.	
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- e. The microstereoscope mount lacks the rigidity defined in specification section 3.5.1.3; therefore, when the operator touches the micrometer dial the cross-hair lines move across the target.
- 12. Protrusions above the lighted surface, such as the film drive mode continued in specification 3.5.1(h).
- 3. On the model MLT 1540-2, serial number one, the tilt control switch has a paddle handle making it readily identifiable by touch and easily differentiated from the nearby elevation switch. This is no longer true as both switches are quite similar on the model MLT 1540-4.
- 4. From discussions with personnel of the Equipment Performance Eranch and personal observation it is readily apparent, that there is a general lack of manufacturer quality control. This situation results in delays at initial inspection and could be the cause of increased equipment failure curing use.

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 $5.\,$ The 70 mm film guides while disengaged lave scratched and snagged film.

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